SYSTEM, METHOD AND COMPUTER PROGRAM PRODUCT FOR SELECTIVELY CACHING DOMAIN NAME SYSTEM INFORMATION ON A NETWORK GATEWAY

ABSTRACT OF THE DISCLOSURE

A system, method and computer program product is provided for selectively caching domain name system (DNS) information on a network gateway. A CPE attached to the network gateway executes an application that searches files in CPE memory to identify frequently accessed domain names. The domain names are used to generate DNS queries that are transmitted by a network gateway to an IP network for resolution. DNS responses are received from the IP network and parsed to extract each resolved domain name and corresponding IP address, which are then stored in a cache on the network gateway. The cache is then used to resolve DNS queries generated by application programs running on the attached CPE.

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